Product datasheet
Characteristics

SM956A401000



Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 900
Device short name	SM956
Sensor design	Cylindrical M30
[Sn] nominal sensing distance	6.56 ft (2 m)
Type of sensing window	Adjustable
Material	Plastic
Enclosure material	ULTEM
Front material	Silicone rubber
Type of output signal	Analog
ISO thread	M30 x 1.5
Wiring technique	4-wire
[Us] rated supply voltage	15...24 V DC (overload and short-circuit protection)
Supply voltage limits	13...28 V DC
Analogue output range	0...10 V inverse
Electrical connection	1 male connector M12 4 pins
Product specific application	Analog output

Complementary

[Sd] sensing range	0.39...6.56 ft (0.12...2 m)
Maximum differential travel	0.1 in (2.5 mm)
Blind zone	4.72 in (120 mm)
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Beam angle	10 °
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 305 mm sensing distance
Current consumption	80 mA
Maximum switching current	60 mA (reverse polarity protection)
Height	1.18 in (30 mm)
Width	1.37 in (34.7 mm)
Depth	1.18 in (30 mm)
Length	3.78 in (96 mm)
Product weight	0.57 lb(US) (0.26 kg)

Environment

product certifications	UL
marking	CE
NEMA degree of protection	NEMA 4X (indoor use only)
IP degree of protection	IP67
ambient air temperature for operation	32...122 °F (0...50 °C)
ambient air temperature for storage	-4...176 °F (-20...80 °C)
relative humidity	100 % without condensation
vibration resistance	+/-1 mm conforming to IEC 60068-2-6 10...55 Hz
shock resistance	30 gn in all 3 axes 11 ms conforming to IEC 60068-2-27
resistance to electromagnetic fields	9.14 V/yd (10 V/m) (level 3) conforming to IEC 61000-4-3
resistance to fast transients	1 kV (level 3) conforming to IEC 61000-4-4

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Contractual warranty

Warranty period	18 months